Installation Oracle VM VirtualBox & openSUSE

- Installation des Oracle VM VirtualBox
- ➤ Installation von openSUSE unter Oracle VM VirtualBox
- Installation von Java unter openSUSE
- Einrichten eines Austauschordners zwischen Windows7 (Host) und openSUSE

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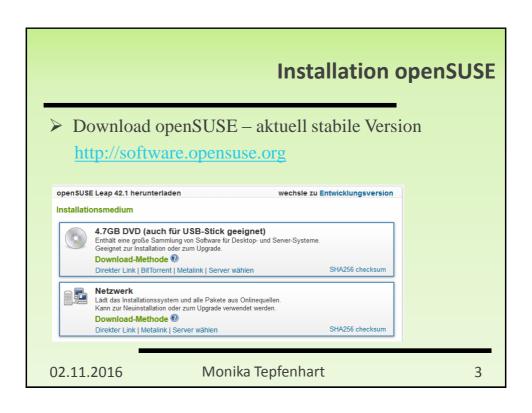
Installation des Oracle VM VirtualBox

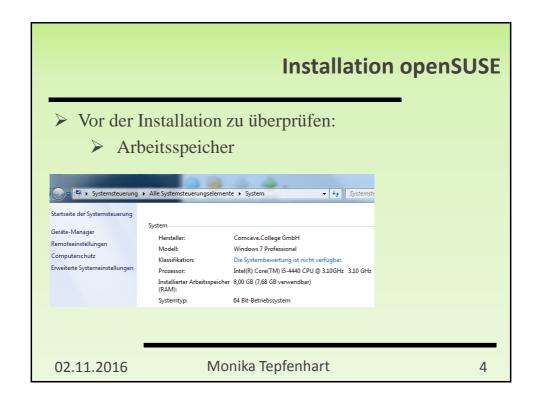
Download des Oracle VM VirtualBox http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html

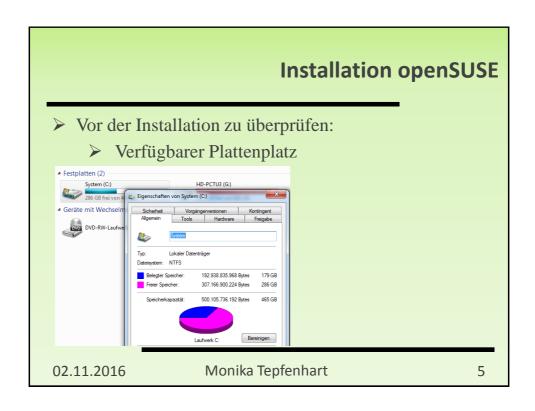


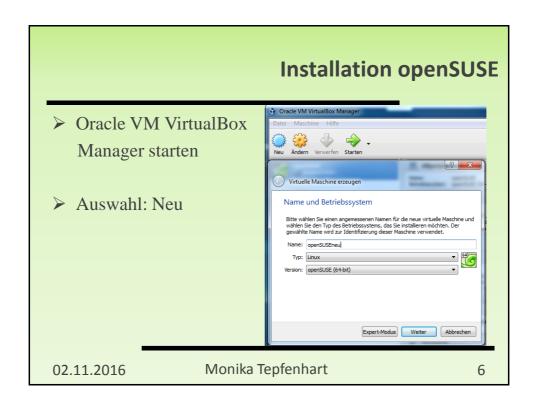
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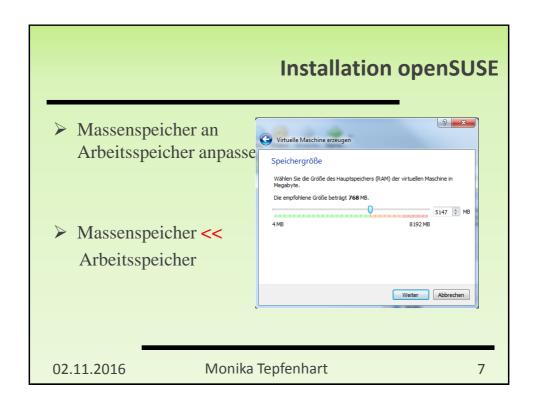
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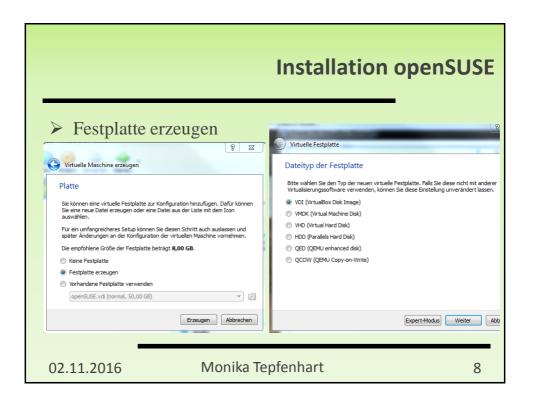












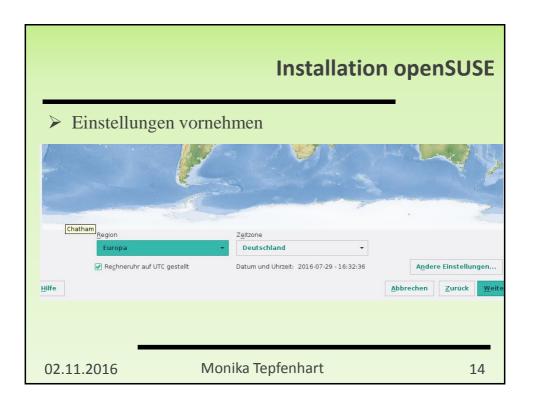




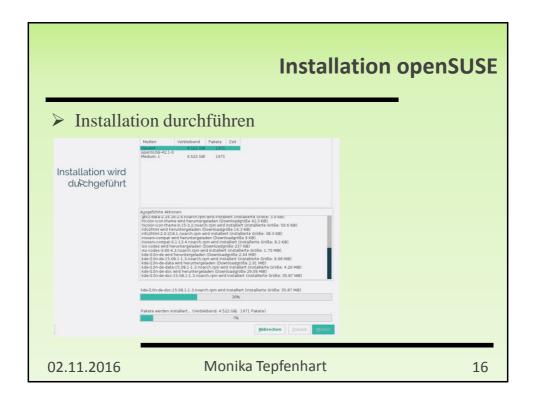


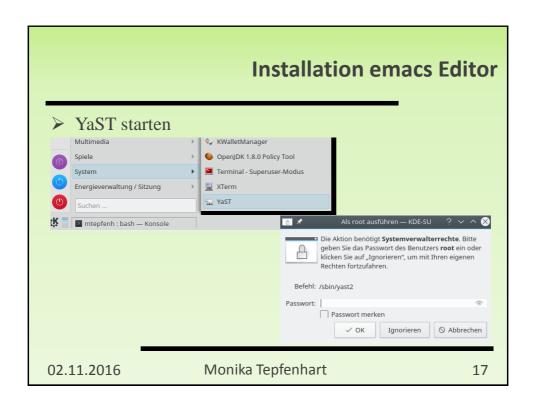


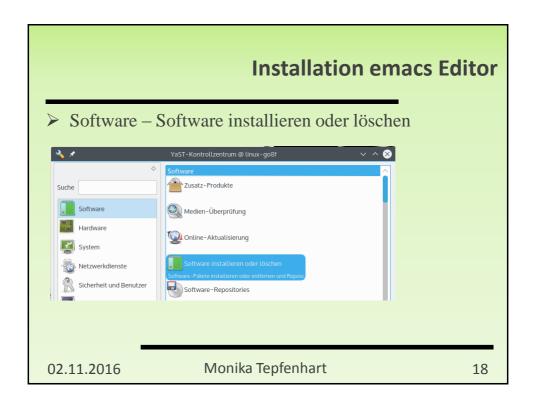


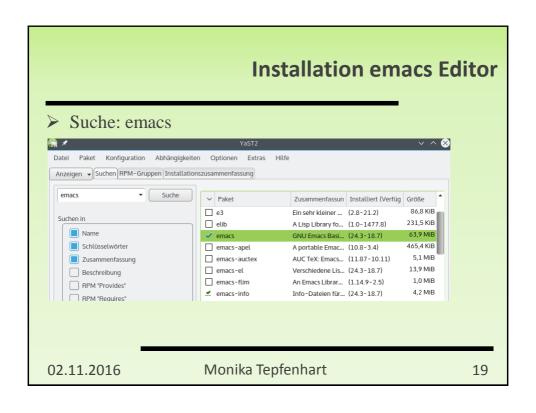


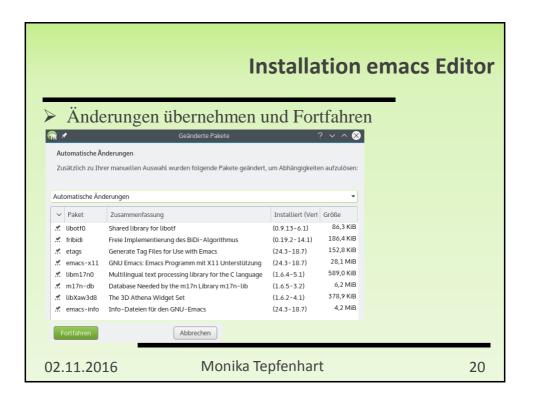


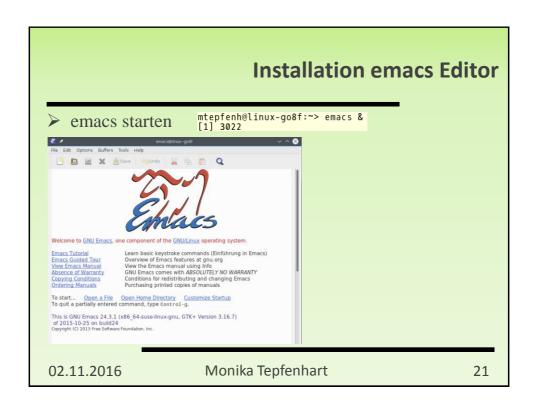


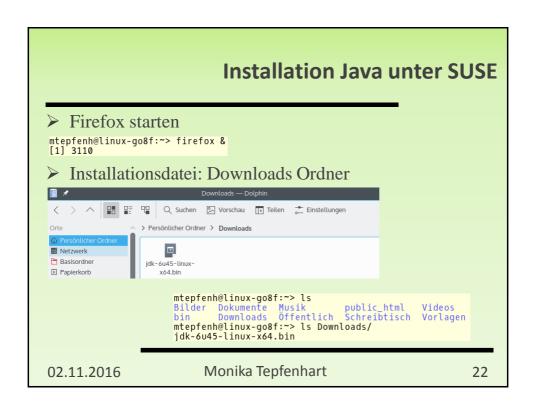


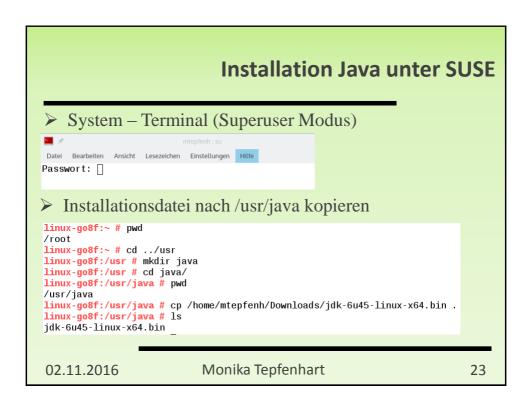












jdk-6u45-linux-x64.bin ausführbar setzen linux-go8f:/usr/java # ls -al total 70400 drawr-xxxx 1 root root 44 Aug. 1 16:00

Installation Java unter SUSE

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Installation Java unter SUSE

➤ jdk-6u45-linux-x64.bin ausführen

```
linux-go8f:/usr/java # ./jdk-6u45-linux-x64.bin
```

```
linux-go8f:/usr/java # ls -al
total 70400
drwxr-xr-x 1 root root 66 Aug 1 16:05 .
drwxr-xr-x 1 root root 138 Aug 1 15:59 ..
-rwxr-xr-x 1 root root 72087592 Aug 1 16:00 jdk-6u45-linux-x64.bin
drwxr-xr-x 1 root root 164 Mar 27 2013 jdk1.6.0_45
```

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JAVA_HOME setzen

➤ Ins Homeverzeichnis wechseln

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JAVA_HOME setzen

> .bashrc Datei erweitern

```
mtepfenh@linux-go8f:~> cat .bashrc
# Sample .bashrc for SuSE Linux
# Copyright (c) SuSE GmbH Nuernberg

# There are 3 different types of shells in bash: the login shell, normal shell
# and interactive shell. Login shells read ~/.profile and interactive shells
# read ~/.bashrc; in our setup, /etc/profile sources ~/.bashrc - thus all
# settings made here will also take effect in a login shell.

# NOTE: It is recommended to make language settings in ~/.profile rather than
# here, since multilingual X sessions would not work properly if LANG is over-
# ridden in every subshell.

# Some applications read the EDITOR variable to determine your favourite text
# editor. So uncomment the line below and enter the editor of your choice :-)
#export EDITOR=/usr/bin/vim
#export EDITOR=/usr/bin/mcedit
# For some news readers it makes sense to specify the NEWSSERVER variable here
#export NEWSSERVER=your.news.server
```

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JAVA_HOME setzen

- Anpassen der .bashrc Datei mit Hilfe der emacs Editors
- Setzen der JAVA HOME Variable & Erweitern der PATH Variable

export JAVA_HOME=/usr/java/jdk1.6.0_45 #export JAVA_HOME=/usr/java/jdk1.7.0_79 #export JAVA_HOME=/usr/java/jdk1.8.0_92 export PATH=\$JAVA_HOME/bin:\$PATH

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Überprüfung der Java Installation

Überprüfen der Installation

```
mtepfenh@linux-go8f:~> javac -version
javac 1.6.0_45
mtepfenh@linux-go8f:~> java -version
java version "1.6.0_45"
Java(TM) SE Runtime Environment (build 1.6.0_45-b06)
Java HotSpot(TM) 64-Bit Server VM (build 20.45-b01, mixed mode)
mtepfenh@linux-go8f:~> echo $JAVA_HOME
/usr/java/jdk1.6.0_45
```

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Überprüfung der Java Installation

Einfaches Java Programm erstellen, kompilieren und ausführen

mtepfenh@linux-go8f:~> emacs HalloWelt.java & [1] 3692

```
File Edit Options Buffers Tools Help

Public class HalloWelt{

public static void main(String[] args){

System.out.println("Hallo Welt");

}

mtepfenh@linux-go8f:~> ls *.java
HalloWelt.java
mtepfenh@linux-go8f:~> javac HalloWelt.java
mtepfenh@linux-go8f:~> javac HalloWelt.java
mtepfenh@linux-go8f:~> javac HalloWelt.java
mtepfenh@linux-go8f:~> javac HalloWelt
Hallo Welt
```

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Austauschordner einrichten

openSUSE

1. In order to fully update your guest system, open a terminal and run

zypper update

as root.

2. Install the make tool and the GNU C compiler using

zypper install make gcc

- 3. Reboot your guest system in order to activate the updates.
- 4. Find out which kernel you are running using

uname -a

An example would be 2.6.31.12-0.2-default which refers to the "default" kernel. Then install the correct kernel development package. In the above example this would be

zypper install kernel-default-devel

5. Make sure that your running kernel (uname -a) and the kernel packages you have installed (rpm -qa kernel*) have the exact same version number. Proceed with the installation as described above.

Quelle: http://underpop.online.fr/v/virtualbox/ch04s02.html

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Austauschordner einrichten

linux-go8f:~ # zypper update Loading repository data... Reading installed packages...

Achtung: zypper update – Dauert lange !!!

870 packages to upgrade, 40 new, 12 to remove. Overall download size: 1015.0 MiB. Already cached: 0 B. After the operation, additional 336.0 MiB will be used. Continue? [y/n/? shows all options] (y): y

Running: google-noto-fonts-20151002-1.2-reconfigure-fonts (google-n[done] There are some running programs that might use files deleted by recent upg rade. You may wish to check and restart some of them. Run 'zypper ps -s' to list these programs.
linux-go8f:~ #

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Austauschordner einrichten

```
linux-go8f:~ # zypper install make gcc
Loading repository data...
Reading installed packages...
'make' is already installed.
No update candidate for 'make-4.0-4.4.x86_64'. The highest available versi on is already installed.
Resolving package dependencies...
The following 8 NEW packages are going to be installed:
    gcc gcc48 glibc-devel libasan0 libatomic1 libitm1 libtsan0
    linux-glibc-devel
8 new packages to install.
Overall download size: 10.5 MiB. Already cached: 0 B. After the operation, additional 41.4 MiB will be used.
Continue? [y/n/? shows all options] (y): y ■
```

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Austauschordner einrichten

```
linux-go8f:~ # uname -a
Linux linux-go8f 4.1.12-1-default #1 SMP PREEMPT Thu Oct 29 06:43:42
UTC 2015 (e24bad1) x86_64 x86_64 x86_64 GNU/Linux
linux-go8f:~ # zypper install kernel-default-devel
Loading repository data...
Reading installed packages..
Resolving package dependencies...
The following 3 NEW packages are going to be installed:
 kernel-default-devel kernel-devel kernel-macros
3 new packages to install.
Overall download size: 13.9 MiB. Already cached: 0 B. After the
operation, additional 53.8 MiB will be used.
Continue? [y/n/? shows all options] (y): y
Checking for file conflicts: .....[done]
(1/3) Installing: kernel-macros-4.1.27-27.1.noarch .........[done]
(2/3) Installing: kernel-devel-4.1.27-27.1.noarch ......[done]
(3/3) Installing: kernel-default-devel-4.1.27-27.1.x86_64 ....[done]
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                                                                     34
```

Austauschordner einrichten

Überprüfung der Kernel Versionen

```
linux-go8f:~ # rpm -qa kernel\*
kernel-default-4.1.12-1.1.x86_64
kernel-macros-4.1.27-27.1.noarch
kernel-default-4.1.27-27.1.x86_64
kernel-default-devel-4.1.27-27.1.x86_64
kernel-devel-4.1.27-27.1.noarch
kernel-firmware-20160503-3.1.noarch
linux-go8f:~ # uname -a
Linux linux-go8f 4.1.27-27-default #1 SMP PREEMPT Fri Jul 15 12:46:41
UTC 2016 (84ae57e) x86_64 x86_64 x86_64 GNU/Linux
```

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Austauschordner zwischen Virtualbox und Host einrichten Gemeinsame Ordner keine Ordner Pfad: C:V...art\WAustauschOrdner Ordner-Name: WAustauschOrdner Nur lesbor WAutomatsch erbinden OK Abbrechen

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